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CTF-066810

COMPONENT RELIABILITY ASSESSMENT

SYSTEM: W31-2
 MAJOR ASSEMBLY: MC1308 Inertial Switch Pack
 COMPONENT: CF1380-P9 Connector
 FAILURE EVENT: J1 - Failure due to one or more connectors
on the ESD Swith Pack
 ASSESSMENT VALUE: J1 - 0.0008
 ASSESSMENT DATE: March 1988

Exemption 6
 RELIABILITY ANALYST: 7222 Exemption 6

ASSESSMENT RATIONALE:

Sifnificant Defect Report, (SRD) 75-13-w31-1, describes the occurrence of a cross-threaded AN connector associated with the CF1380 cable in a W31 system. The investigation results of this anomaly were reported in the following document:

SRD Memorandum, H. E. Guttmann to Exemption 6 , subject,
 Report of Cross-Threaded Connector, described in Significant
 Defect Report (SRD) 75-13-W31-1 (U), RS1222/28, dated 7/30/75.

The results of this examination together with consideration of data from inspections in the course of retirement or reconversion of MK31 systems (2 observed failures in 2400 units) has led to the assessment of 0.0008 for Event J1. The inspection data take into account over 8400 opportunities for cross-threading or otherwise mismating of the connector in the 3400 weapons inspected (other data in the summary table are supportive of the J1 assessment).

DATA SUMMARY

<u>Source</u>	<u>Quantity</u>	<u>Failures</u>
Weapon Inspection	2400 (8400 connections)	2*
W31 LAB	444	0
W31 FLT	131	0

*A cross-threaded AN connector resulted in an intermittent contact (a similar failure was noted to have occurred in 1968).

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 Department of Energy review required before public release.
 Name/Org.:Eric Holzer / DOE SNL Date: April 18, 2018
 Guidance (if applicable)

00066810

DATA-ASSESSMENT COMPARISON CHART

KEY	
•	Data not in SUM
—	Upper 90 Pct Conf Lmt
Single Data Source	
○	Point Estimate
□	50 Pct Conf Limit
Combined Data Sources	
◎	Point Estimate
■	50 Pct Conf Limit

